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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------|----------------------|---------------------|------------------|
| 10/716,792 | 11/18/2003 | Yulun Wang | 157438-0015 | 6134 |
| 1622 | 7590 | 01/24/2006 | EXAMINER | |
| IRELL & MANELLA LLP 840 NEWPORT CENTER DRIVE SUITE 400 NEWPORT BEACH, CA 92660 | | | SAN MARTIN, EDGARDO | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 2837 | |

DATE MAILED: 01/24/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

EL

| | | | |
|------------------------------|------------------------|---------------------|--|
| Office Action Summary | Application No. | Applicant(s) | |
| | 10/716,792 | WANG ET AL. | |
| | Examiner | Art Unit | |
| | Edgardo San Martin | 2837 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 January 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4,6-12,14-16,21-24,26-32 and 34-36 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4,6-12,14-16,21-24,26-32 and 34-36 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on January 11, 2006 has been entered.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1 and 29 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1 and 29 recite the limitation "said second linkage ... said first linkage" in line 5 and line 10, respectively. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which the subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1 – 4, 6 – 12, 14 – 16, 21 – 24, 26 – 32 and 34 – 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Paulos et al. (NPL Document titled Designing Personal Tele-embodiment) in view of Pin et al. (US 5,374,879), and further in view of Skaar et al. (US 6,304,050).

With respect to claims 1, 9, 21 and 29, Paulos et al. teach a robot, comprising a mobile platform; a camera coupled to the mobile platform, an arm coupled to the mobile platform; and a first effector coupled to the arm (Figs.1 and 2; Sections 1 – 4), wherein the arm includes a first linkage, and a second linkage coupled to the first linkage, the arm having an actuator that moves the second linkage relative to the first linkage in a first degree a freedom in a first mode, and in a second degree of freedom in a second mode (Section 4.5); but fail to disclose wherein the platform is holonomic and wherein the effector is a grasper.

Nevertheless, Pin et al. teach a holonomic platform used with a robot (Fig.3; Col.1, Lines 14 – 22 and Col.2, Lines 9 – 34).

On the other hand, Skaar et al. teach the use of grasper in a robotic system employing cameras for monitoring the robot actions (Fig.1; Col.59 – Col.5, Line 63).

It would have been obvious to a person with ordinary skill in the art at the time of the invention was made to employ the Pin et al. holonomic platform and the Skaar et al. grasper with the Paulos design because the holonomic platform would provide an omnidirectional platform having decoupled rotational and translational degrees of freedom, and the monitored grasper could perform specific grasping actions that could be visually controlled by a remote user, improving the mobility and performance of the robot.

With respect to claims 2 – 4, 6 – 8, 10 – 12 and 14 – 16, the Examiner considers that Paulos et al. teach the limitations described in the claims (Figs.1 and 2; Section 4).

With respect to claims 21 and 29, Paulos et al. teach a robot system comprising a broadband network; a remote station coupled to the broadband network, the remote station having a handle that can be manipulated to generate movement signals that are transmitted through the broadband network; a robot that is coupled to the broadband network and receives the movement signals from the handle of the remote station (Sections 1 – 3).

With respect to claims 22 – 24, 26 – 28, 30 – 32 and 34 – 36, the Examiner considers that Paulos et al. teach the limitations described in the claims (Figs.1 and 2; Section 4).

Response to Arguments

4. Applicant's arguments filed on January 11, 2006 have been fully considered but they are not persuasive. The Examiner considers that the obvious combination of the

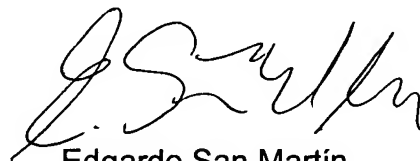
Paulos et al. document and the patents to Pin et al. and Skaar et al. teach the limitations described in the claims as discussed above.

Contact Information

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edgardo San Martin whose telephone number is (571) 272-2074. The examiner can normally be reached on 8:00AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula Bradley can be reached on (571) 272-2800 ext.33. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Edgardo San Martin
Primary Examiner
Art Unit 2837
Class 318
January 23, 2006